

To accomplish the foregoing objects, the present invention provides a flash discharge lamp comprising a pair of electrodes i.e. an anode and a cathode, oppositely disposed in at both ends of the glass tube, a electro-conductive member is provided on the outer surface of the glass tube, a triggering electrode mounted on said cathode and electrically connected to said electro-conductive member, and xenon gas sealed in said glass tube, characterized in that said flash discharge lamp further includes at least one high temperature resistant electrode mounted on said cathode and at least one getter electrode mounted on said cathode and/or said anode.

5 10 15 20 25 30

By use of the flash discharge lamps according to this invention, the light output can be multiplied 3 to 10 times. In another words, it can increase the total luminous flux by 3 to 10 times, and the unilateral luminous intensity by 1 to 3 times. The life expectancy of the said lamp is extended by 0.5 to 4 times and up to 10 million times. Moreover, the application of the flash discharge lamp according to this invention has been extended to safety alarms and emergency lighting systems due to the increase in the discharge frequency.

BRIEF DESCRIPTION OF DRAWINGS

Preferred embodiments of the invention will now be described with the reference to the accompanying drawings, in which the reference numbers designate the corresponding parts therein. Other and further objects, features and advantages of the invention will become apparent from the following description:

35 Figure 1 is a sectional side elevation of a flash discharge lamp according to prior art.

Figure 2 is a sectional side elevation of first preferred embodiment of the flash discharge lamp according to this invention; and

5 Figure 3 is a sectional side elevation of second preferred embodiment of the flash discharge lamp according to this invention; and

10 Figure 4 is a sectional side elevation of third preferred embodiment of the flash discharge lamp according to this invention; and

15 Figure 5 is a sectional side elevation of forth preferred embodiment of the flash discharge lamp according to this invention; and

Figure 6 is a sectional side elevation of fifth preferred embodiment of the flash discharge lamp according to this invention.

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DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

In the flash discharge lamp according to this invention, at least two electrodes are used which have different 25 functions. One electrode, taken as a High Temperature Resistant electrode, is made of high temperature resistant rare metal with a certain activity and its alloy thereby enabling the said lamp to withstand high temperature ion flushes. Another electrode, taken as a 30 Getter electrode, is made of a more active rare metal and its alloy thereby possessing a desirable purifying effect.

The High Temperature Resistant electrode is made of 35 tantalum and tantalum alloy, niobium and niobium alloy, or vanadium and vanadium alloy. In these materials, tantalum and tantalum alloy has extremely high melting